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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/624,706	07/21/2003	Ryuichi Iwamura	SON5180.30A	7011
36813 7590 01/04/2007 O'BANION & RITCHEY LLP/ SONY ELECTRONICS, INC. 400 CAPITOL MALL			EXAMINER	
			WONG, ALLEN C	
SUITE 1550 SACRAMENTO, CA 95814		ART UNIT	PAPER NUMBER	
			2621	
SHORTENED STATUTORY PE	RIOD OF RESPONSE	MAIL DATE	DELIVER	Y MODE
3 MONTH		01/04/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

		Application No.	Applicant(s)				
Office Action Summary		10/624,706	IWAMURA, RYUICHI				
		Examiner	Art Unit				
		Allen Wong	2621				
Period fo	The MAILING DATE of this communication ap or Reply	ppears on the cover sheet with the c	orrespondence address				
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPL CHEVER IS LONGER, FROM THE MAILING Insions of time may be available under the provisions of 37 CFR 1 SIX (6) MONTHS from the mailing date of this communication. O period for reply is specified above, the maximum statutory period re to reply within the set or extended period for reply will, by staturely received by the Office later than three months after the mailing patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION  .136(a). In no event, however, may a reply be tim  d will apply and will expire SIX (6) MONTHS from te, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. ED (35 U.S.C. § 133).				
Status							
1)	Responsive to communication(s) filed on						
2a)□		is action is non-final.					
3)	· · · · · · · · · · · · · · · · · · ·						
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Dispositi	ion of Claims						
4)⊠	4)⊠ Claim(s) <u>1-44</u> is/are pending in the application.						
,	4a) Of the above claim(s) is/are withdrawn from consideration.						
	5) Claim(s) is/are allowed.						
6)⊠	⊠ Claim(s) <u>1-44</u> is/are rejected.						
7)	Claim(s) is/are objected to.						
8)[	8) Claim(s) are subject to restriction and/or election requirement.						
Applicati	on Papers						
9)	The specification is objected to by the Examin	er.					
· <u></u>	10)⊠ The drawing(s) filed on <u>21 July 2003</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11)[	11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority ι	ınder 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a) All b) Some * c) None of:							
	1. Certified copies of the priority documents have been received.						
	2. Certified copies of the priority documents have been received in Application No						
	3. Copies of the certified copies of the priority documents have been received in this National Stage						
	application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.							
Attachmen		·					
	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date  Notice of Informal Patent Application							
	r No(s)/Mail Date <u>7/21/03</u> .	•					

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#### **DETAILED ACTION**

### Claim Objections

Claim 43 is objected to because of the following informalities: in the preamble of claim 43, after the term "comprising:", there is a period. Removal of period is needed. Appropriate correction is required.

### Claim Rejections - 35 USC § 101

35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

The USPTO "Interim Guidelines for Examination of Patent Applications for Patent Subject Matter Eligibility" (Official Gazette notice of 22 November 2005), Annex IV, reads as follows:

Descriptive material can be characterized as either "functional descriptive material" or "nonfunctional descriptive material." In this context, "functional descriptive material" consists of data structures and computer programs which impart functionality when employed as a computer component. (The definition of "data structure" is "a physical or logical relationship among data elements, designed to support specific data manipulation functions." The New IEEE Standard Dictionary of Electrical and Electronics Terms 308 (5th ed. 1993).) "Nonfunctional descriptive material" includes but is not limited to music, literary works and a compilation or mere arrangement of data.

When functional descriptive material is recorded on some computer-readable medium it becomes structurally and functionally interrelated to the medium and will be statutory in most cases since use of technology permits the function of the descriptive material to be realized. Compare In re Lowry, 32 F.3d 1579, 1583-84, 32 USPQ2d 1031, 1035 (Fed. Cir. 1994) (claim to data structure stored on a computer readable medium that increases computer efficiency held statutory) and Warmerdam, 33 F.3d at 1360-61, 31 USPQ2d at 1759 (claim to computer having a specific data structure stored in memory held statutory product-by-process claim) with Warmerdam, 33 F.3d at 1361, 31 USPQ2d at 1760 (claim to a data structure per se held nonstatutory).

In contrast, a claimed computer-readable medium encoded with a computer program is a computer element which defines structural and functional interrelationships between the computer program and the rest of the computer which permit the computer program's functionality to be realized, and is thus statutory. See Lowry, 32 F.3d at 1583-84, 32 USPQ2d at 1035.

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Claim 43 is rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter as follows. Claim 43 defines "a media that is computer readable and includes a computer program which, when executed by a controller for a video device..." embodying functional descriptive material. However, the claim does not define a computer-readable medium or memory and is thus nonstatutory for that reason (i.e., "When functional descriptive material is recorded on some computer-readable medium it becomes structurally and functionally interrelated to the medium and will be statutory in most cases since use of technology permits the function of the descriptive material to be realized" – Guidelines Annex IV). That is, the scope of the presently claimed a media that is computer readable and includes "a computer program which, when executed by a controller for a video device..." can range from paper on which the program is written, to a program simply contemplated and memorized by a person. The examiner suggests amending the claim to embody the program on "computer-readable medium" or equivalent in order to make the claim statutory. Any amendment to the claim should be commensurate with its corresponding disclosure.

To avoid potential problems with 35 U.S.C. 101, claim 43 should be written as "a computer-readable medium encoded with computer executable instructions for using a digital camera system…"

# Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

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A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1, 8, 9, 11, 12 and 17-22 are rejected under 35 U.S.C. 102(e) as being anticipated by Ramirez-Diaz (6,476,858).

Regarding claims 1 and 11, Ramirez-Diaz discloses a system for providing area surveillance, comprising:

at least one video imaging device configured for transmitting a video data stream over an AC power-line (fig.7, elements 4a-4x are the imaging devices and col.5, ln.58-65);

a video display interface device (fig.7, element 5a has a display for viewing); and means for receiving said video data stream from said AC power-line and controlling presentation of said received video data stream as passed to said video display interface device for storage or presentation to a user (fig.7, note element 1a receives the video data stream and that element 2a is the interface that can control the presentation of the received video data stream as passed to the video display interface at element 5a for storage or presentation to the user at element 5a).

Regarding claim 8, Ramirez-Diaz discloses data storage device (fig.7, element 5b is considered to be one of many data storage devices that is interactively connected to the computer server 3b for storing portions of the video data stream).

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Regarding claim 9, Ramirez-Diaz discloses a computer server (fig.7, element 3b).

Regarding claim 12, Ramirez-Diaz discloses a system for providing area surveillance, comprising:

at least one video imaging device connected to an AC power-line and configured for generating a video data stream of an area under surveillance (fig.7, elements 4a-4x are the imaging devices and col.5, ln.58-65);

a computer server connected to said AC power-line and configured for receiving said video data stream and communicating said video data stream to a display device according to user preferences (fig.7, element 3b is a computer server, the display device at element 5a can be used for viewing);

a data storage device coupled to said computer server configured for storing portions of said video data stream (fig.7, element 5b is considered to be one of many data storage devices that is interactively connected to the computer server 3b for storing portions of the video data stream); and

a user interface within said computer server configured for capturing user preferences for controlling the collection and display of said video data streams (fig.7, note element 1a receives the video data stream and that element 2a is the interface that can control the presentation, ie. user preferences, of the received video data stream as passed to the video display interface at element 5a for storage or presentation to the user at element 5a).

Note claims have similar corresponding elements.

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Regarding claims 17 and 19-22, Ramirez-Diaz discloses wireless communication (fig.7, note "remote console" is used).

Regarding claim 18, Ramirez-Diaz discloses wired connection (fig.8A, note coaxial cable is used).

### Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 2-7, 10, 13-16 and 23-44 and are rejected under 35 U.S.C. 103(a) as being unpatentable over Ramirez-Diaz (6,476,858) and Smith (6,757,008).

Regarding claim 25, Ramirez-Diaz discloses an apparatus for imaging an area under video surveillance, comprising:

an image sensor (fig.7, element 4a);

a communications interface configured for communicating over an AC power-line with a server, and video signals from said image sensor are transmitted to said server (fig.7, element 3b is a server that receives video data obtained from element 4a, and that element 5a is a communications interface).

Ramirez-Diaz does not specifically disclose the dynamic bandwidth allocations are received from said server, and video signals from said image sensor subject to said dynamic bandwidth allocation is transmitted to said server. However, Smith teaches the use of MPEG compression/decompression that applies the dynamic bandwidth

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allocation for transmission of video data (col.8, ln.23-42; MPEG compression utilizes adaptive dynamic bandwidth allocation for encoding video image data in an efficient manner). Therefore, it would have been obvious to one of ordinary skill in the art to combine the teachings of Ramirez-Diaz and Smith, as a whole, for accurately, efficiently encode image data in a high quality manner so as to provide precise video surveillance (col.3, ln.13-29).

Note claims 2-7, 10, 13-16, 23-24 and 26-30 and 32-33 have similar corresponding elements.

Regarding claim 31, Ramirez-Diaz discloses motion sensors (col.5, In.33-42).

Regarding claim 34, Ramirez-Diaz discloses an apparatus for monitoring and controlling video surveillance, comprising:

a power-line interface configured for communicating over an AC power-line with remote video imaging devices (fig.7, element 5a);

a user interface configured for capturing user preferences for controlling the collection and display of said video streams (fig.7, element 2a); and

a computer server configured for allocating bandwidth to remote video imaging devices and receiving video streams, said computer server also configured to communicate said video streams for storage and/or display in response to said user preferences (fig.7, note element 1a receives the video data stream and that element 2a is the interface that can control the presentation, ie. user preferences, of the received video data stream as passed to the video display interface at element 5a for storage or presentation to the user at element 5a).

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Ramirez-Diaz does not specifically disclose the dynamic bandwidth allocations are received from said server, and video signals from said image sensor subject to said dynamic bandwidth allocation is transmitted to said server. However, Smith teaches the use of MPEG compression/decompression that applies the dynamic bandwidth allocation for transmission of video data (col.8, In.23-42; MPEG compression utilizes adaptive dynamic bandwidth allocation for encoding video image data in an efficient manner). Therefore, it would have been obvious to one of ordinary skill in the art to combine the teachings of Ramirez-Diaz and Smith, as a whole, for accurately, efficiently encode image data in a high quality manner so as to provide precise video surveillance (col.3, In.13-29).

Note claims 35-36 have similar corresponding elements.

Regarding claims 37-38, Ramirez-Diaz discloses transmission and reception of television video signals (col.3, ln.37-39).

Regarding claim 39, Ramirez-Diaz discloses an apparatus for controlling video surveillance, comprising:

a power-line interface configured for receiving video data streams from video imaging devices connected to said power-line interface (fig.7, element 5a);

a computer configured for communicating said video data streams to a display device (fig.7, element 2a); and

programming executable on said computer for, interacting with a user for controlling the receipt and display of said video data streams (fig.7, note element 1a receives the video data stream and that element 2a is the interface that can control the

presentation, ie. user preferences, of the received video data stream as passed to the video display interface at element 5a for storage or presentation to the user at element 5a).

Ramirez-Diaz discloses the displaying of multiple images from multiple streams (fig.7, note 5a is an interface that can display multiple video image streams as shown in fig.3). Ramirez-Diaz does not specifically disclose controlling the bandwidth of said video data streams generated by said video imaging devices when multiple video imaging devices are active. However, Smith teaches the use of MPEG compression/decompression that applies the dynamic bandwidth allocation for controlled transmission of video data (col.8, ln.23-42; MPEG compression utilizes adaptive dynamic bandwidth allocation for encoding video image data in an efficient manner). Therefore, it would have been obvious to one of ordinary skill in the art to combine the teachings of Ramirez-Diaz and Smith, as a whole, for accurately, efficiently encode image data in a high quality manner so as to provide precise video surveillance (col.3, ln.13-29).

Note claims 40-42 have similar corresponding elements.

Regarding claim 43, Ramirez-Diaz discloses a media that is computer readable and includes a computer program which, when executed by a controller for a video device capable of receiving video streams over a power-line communication network and of outputting video streams to a display device, causes the controller to perform the steps comprising:

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5a).

interacting with a user for controlling the receipt and display of said video data streams (fig.7, element 2a can be used to interact with a user at element 5a); and communicating selected portions of said video signals from said video device to a display device connected to said video device (fig.7, note element 1a receives the video data stream and that element 2a is the interface that can control the presentation, ie. user preferences, of the received video data stream as passed to the video display interface at element 5a for storage or presentation to the user at element

Ramirez-Diaz does not specifically disclose controlling the bandwidth of said video data streams generated by said video imaging devices. However, Smith teaches the use of MPEG compression/decompression that applies the dynamic bandwidth allocation for controlled transmission of video data (col.8, In.23-42; MPEG compression utilizes adaptive dynamic bandwidth allocation for encoding video image data in an efficient manner). Therefore, it would have been obvious to one of ordinary skill in the art to combine the teachings of Ramirez-Diaz and Smith, as a whole, for accurately, efficiently encode image data in a high quality manner so as to provide precise video surveillance (col.3, In.13-29).

Regarding claim 44, Ramirez-Diaz discloses a method of providing area surveillance, comprising:

generating video signals in response to video surveillance of one or more areas (fig.7, elements 4a-4x obtains video image signals and generates video signals to a computer 2a);

communicating said video signals over an AC power line (fig.7, element 3b is a computer server, the display device at element 5a can be used for viewing);

receiving said video signals within a computer server connected to said AC power line (fig.7, element 5b is considered to be one of many data storage devices that is interactively connected to the computer server 3b for storing portions of the video data stream); and

communicating selected portions of said video signals from said computer server to a display in response to predetermined or event driven criterion (fig.7, note element 1a receives the video data stream and that element 2a is the interface that can control the presentation, ie. user preferences, of the received video data stream as passed to the video display interface at element 5a for storage or presentation to the user at element 5a).

Ramirez-Diaz does not specifically disclose dynamic bandwidth allocation.

However, Smith teaches the use of MPEG compression/decompression that applies the dynamic bandwidth allocation for controlled transmission of video data (col.8, In.23-42; MPEG compression utilizes adaptive dynamic bandwidth allocation for encoding video image data in an efficient manner). Therefore, it would have been obvious to one of ordinary skill in the art to combine the teachings of Ramirez-Diaz and Smith, as a whole, for accurately, efficiently encode image data in a high quality manner so as to provide precise video surveillance (col.3, In.13-29).

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#### **Contact Information**

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Allen Wong whose telephone number is (571) 272-7341. The examiner can normally be reached on Mondays to Thursdays from 8am-6pm Flextime.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James J. Groody can be reached on (571) 272-7418. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Allen Wong Primary Examiner

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